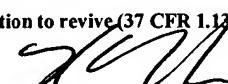


IAP7 Rec'd PCT/PTO 02 FEB 2006

FORM PTO-1390 (REV 1-2003)	U.S. Department of Commerce Patent and Trademark Office		ATTORNEY'S DOCKET NUMBER CML01134EP
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		U.S. APPLICATION NO. (if known; see 37 CFR 1.5) 10/566932	
INTERNATIONAL APPLICATION NO. PCT/EP2004/051643	INTERNATIONAL FILING DATE JULY 28, 2004	PRIORITY DATE CLAIMED AUGUST 28, 2003	
TITLE OF INVENTION: OFDM CHANNEL ESTIMATION AND TRACKING FOR MULTIPLE TRANSMIT ANTENNAS			
APPLICANT(S) FOR DO/EO/US DIAS ET AL.			
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:			
<p>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))</p> <ul style="list-style-type: none">a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). <p>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)).</p> <ul style="list-style-type: none">a. <input type="checkbox"/> is attached hereto.b. <input checked="" type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). <p>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <ul style="list-style-type: none">a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).b. <input type="checkbox"/> have been communicated by the International Bureau.c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.d. <input type="checkbox"/> have not been made and will not be made. <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p>			
Items 11 to 20 below concern other document(s) or information included:			
<p>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input checked="" type="checkbox"/> A preliminary amendment.</p> <p>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p> <p>20. <input type="checkbox"/> Other items or information:</p>			

U.S. A	RI:5)	International Application No.	Attorney Docket Number
10/566932		PCT/EP2004/051643	CML01134EP
The following fees have been submitted:			
21. <input type="checkbox"/> Basic national fee.....		\$300	CALCULATIONS PTO USE ONLY \$
22. <input type="checkbox"/> Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)..... All other situations.....		\$100 \$200	\$
23. <input type="checkbox"/> Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... International Search Report prepared and provided to the Office..... All other situations.....		\$100 \$400 \$500	\$
TOTAL OF 21, 22 AND 23=			
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.			
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE
-100 =	/50 =		x \$250
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)). +			
Claims	Number Filed	Number Extra	Rate
Total Claims	- 20 =		x \$50.00
Independent Claims	- 3 =		x \$200.00
MULTIPLE DEPENDENT CLAIM(s) (if applicable)			+ \$360.00
TOTAL OF ABOVE CALCULATIONS =			
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/4.			
SUBTOTAL =			
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). +			
TOTAL NATIONAL FEE =			
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +			
TOTAL FEES ENCLOSED =			
			Amount to be refunded: \$
			Amount to be Charged: \$ 1000.00
<p>a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.</p> <p>b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>502117</u> to cover any/all fees.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>502117</u>.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information any authorization on PTO - 2038.</p>			
<p>Note: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.127 (a) or (b)) must be filed and granted to restore the international application to pending status.</p> <p>Send all correspondence to:</p> <p>Motorola, Inc. Intellectual Property Department 1303 E. Algonquin Road IL01-3rd Floor Schaumburg, Illinois 60196</p>			
<p> Kenneth A. Haas Attorney for Applicant(s) Reg. No.: 42,614 Telephone: 847/576-6937 Fax No.: 847/576-3750</p>			

10/566932

JAP20 Rec'd FWD 02 FEB 2006

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: MOTOROLA, INC INT'L APPLICATION NO: PCT/EP2004/051643

CASE NO.: CML01134EP INT'L FILE DATE: JULY 28, 2004

ENTITLED: OFDM CHANNEL ESTIMATION AND TRACKING FOR MULTIPLE
TRANSMIT ANTENNAS

Motorola, Inc.
Corporate Offices
1303 E. Algonquin Road
Schaumburg, Illinois 60196

CERTIFICATE OF EXPRESS MAILING / FILING UNDER 35 U.S.C. 371

BOX PCT
COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, VA 22213-1450

Sir:

I certify that the above-referenced FILING UNDER 35 U.S.C. 371 was deposited, postage prepaid, as Express Mail having the mailing label number written below with the United States Postal Service addressed to:

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By: Debra L. Healy

Date: 2-2-06

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